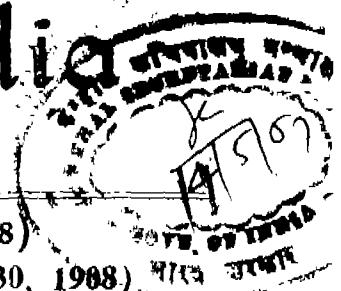




# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



सं. 12] नई दिल्ली, शनिवार, मार्च 21, 1987 (फाल्गुन 30, 1908)

No. 12] NEW DELHI, SATURDAY, MARCH 21, 1987 (PHALGUNA 30, 1908)

इस भाग में भिन्न पृष्ठ संलग्न दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### (PART III—SECTION 2)

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से संबंधित अधिसूचनाएं और नोटिस

(Notices and Notifications issued by the Patent Office relating to Patents and Designs)

#### PATENTS AND DESIGNS THE PATENT OFFICE

Calcutta, the 21st March 1987

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below:—

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Bombay-400 013.

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Calcutta-700 017.

Telegraphic address "PATENTS".

Rest of India.

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## REGISTRATION OF PATENT AGENTS

The following person has been registered as Patent Agent :—

Shri Chandra Kant Maganlal Joshi,  
511, S. V. P. Road,  
Krishna Bhavan,  
Bombay-400 004.

## ALTERATION OF AN ENTRY IN THE REGISTER OF PATENT AGENTS UNDER RULE 103 OF THE PATENTS RULES, 1972

In pursuance of applications on Form 52 filed on 4th February, 1987 by Shri G. S. Davar and Shri S. K. Dutt, the principal place of business has been altered to :—

C/o M/s L. S. Davar & Co,  
506, Shkuntala,  
59, Nehru Place,  
New Delhi-110019.

## CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated 31st May, 1986 page 375, Column 1 under heading "Complete Specification accepted" delete

"CLASS : 56 D 157740

Int. Cl. : F 25 b—39/02.

## A DISTRIBUTOR HEAD.

Applicants : STAINCO ENTERPRISES PVT. LTD., AN INDIAN COMPANY OF 4TH FLOOR, 405 KAUSHAL BAZAR, 32-33 NEHRU PLACE, NEW DELHI-110019, INDIAN.

Inventors : SWAPAN DASGUPTA.

Application for Patent No. 620/Del/1981 filed on 25th September, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A distributor head use with a calendria of an evaporator, said distributor head comprising a housing with a spray ball disposed therein, said spray ball being adapted to be connected to a milk pipe line, a distribution plate disposed below said spray ball said plate holding in position a plurality of guide tubes, said guide tubes being adapted to be disposed in concentric relationship to its respective tube of the calendria, a plurality of holes provided in said distribution plate in the vicinity of said guide tubes so as to allow the flow of milk along the outer surface of said guide tubes, the termination and of said guide tubes being adapted to be disposed within its respective tube of the calendria and in a spaced relationship thereto so as to allow flow of milk along the inner surface of the calendria tube.

Compl specn. 9 pages.

Drg. 1 sheet."

## CORRIGENDUM

The design No. 156775 in class 3 which was notified in the Gazette of India, Part III, Section 2 dated 13th December, 1986 in column 2 page 800 should be read as "Sinclair Research Limited, a British Company of Milton Hall, Milton, Cambridge CB4 4AE, England, "Computer". Reciprocity date September 16, 1985 (U.K.)."

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 12th February 1987

122/Cal/1987. Mitsui Toatsu Chemicals, Incorporated Production process of chlorine.

The 13th February, 1987

123/Cal/87. Solarex Corporation. Deposition feedstock and dopant materials useful in the fabrication of hydrogenated amorphous silicon alloys for photovoltaic devices and other semiconductor devices.

The 16th February, 1987

124/Cal/87. Norton Company. Activated sludge treatment process.

125/Cal/87. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Discharge unit in containers such as cylindrical silos or bunkers, especially for sluggish and/or caking particulate materials.

126/Cal/87. Nissan Chemical Industries Ltd. Pyridazinone derivatives, preparation thereof, and insecticidal, acaricidal nematicidal, fungicidal compositions.

The 17th February, 1987

127/Cal/87. Vijay Kumar Paul. Sighting device for use with fire arms.

128/Cal/87. Manville Corporation. Inorganic fibre composition.

129/Cal/87. Cummins Engine Company, Inc. Plasma jet ignition apparatus.

130/Cal/87. Mr. Hari Datt Naithani. Desulfurisation of hot metal.

The 18th February, 1987

131/Cal/87. Franz X. Starlinger-Huemer. Method and device for the manufacture of a tubular fabric.

132/Cal/87. Injectall Limited. Injection of substances into high temperature liquids. (Convention dated 20th February, 1986) U. K.

133/Cal/87. Texaco Development Corporation. Control process for gasification of solid carbonaceous fuels.

APPLICATION FOR PATENTS FILING AT FOR PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 27th January, 1987

49/Mas/87. M. S. VENKATARAMA SARMA. Thermoelectric Motor which is a Prime-Mover that converts heat energy into Mechanical Power.

50/Mas/87. AKZO N. V., Preparation of a (Co) Polymerizable Composition Containing a diol bis (Carboxylic Acid/Carboxylate). Monomer and a process by which this Composition is (Co.) Polymerized.

51/Mas/87. THE DOW CHEMICAL COMPANY, Magnesium Calcium Oxide Composite.

52/Mas/87. COLIN JAMES ANDERTON AND GAIL FRANCES ANDERTON. "Deodorising Composition".

53/Mas/87. MAGYAR ALUMINIUMIPARI TROSZT. Process and apparatus for Grain-Sizing in Alumina Hydrate Slurry.

The 28th January, 1987

54/Mas/87. HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN, A Detergent Bar.

55/Mas/87. OWENS-ILLINOIS, INC.. Tamper Indicating Vacuum package.

The 29th January, 1987

56/Mas/87. HENKEL CORPORATION. Process and Apparatus for Saponification Reactions and the Like.

57/Mas/87. STAMICARBON B.V., Process for purifying A Thermoplastic Polymer.

58/Mas/87. FMC CORPORATION. Aircraft Loader and Method of Assembly.

The 30th January, 1987

59/Mas/87. LUCAS INDUSTRIE PUBLIC LIMITED COMPANY, "Pneumatically operated Servo Booster". (February, 6th, 1986, United Kingdom).

60/Mas/87. GRASEBY DYNAMICS LIMITED. Mounting of sonic Devices. (January 31st, 1986, Great Britain).

61/Mas/81. SHELL INTERNATIONAL RESEARCH MATSCHAPPIJ B.V., Process and Apparatus for Contacting Gas, Liquid and Solid Particles.

62/Mas/87. SAYZEN LIMITED. An Aircraft Surveillance System. (February, 3rd, 1986, U.K.)

63/Mas/87. NIPPON CHEMIPHAR Co. LTD., "Process for the Preparation of Novel Alkylenediamine derivatives."

#### ALTERATION OF DATE

157740  
(620/Del/81)

Ante-dated to 17th April, 1980.

159102  
(278/Del/80)

Post-dated to 17th August, 1980.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of Patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 56-D

157740

Int. Cl. : F 25 b 39/02.

#### A DISTRIBUTOR HEAD.

Applicant : STAINCO ENTERPRISES PVT. LTD. OF 4TH FLOOR, 405 KAUSHAL BAZAR, 32-33 NEHRU PLACE, NEW DELHI-110019, INDIA.

Inventor : 1. SWAPAN DASGUPTA.

Application No. 620/Del/1981 filed on 25th September, 1981.

Division of Application No. 278/Del/80 dated 17th April, 1980. Post dated to 17th August, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi.

6 Claims.

A distributor head for the with a calendria of an evaporator, said distributor head comprising a housing with a spray ball disposed therein, said spray ball being adapted to be connected to a milk pipe line, a distribution plate disposed below said spray ball said plate holding in position a plurality of guide tubes, said guide tubes being adapted to be disposed in concentric relationship to its respective tube of the calendria, a plurality of holes provided in said distribution plate in the vicinity of said guide tubes so as to allow the flow of milk along the outer surface of said guide tubes, the terminating end of said guide tubes being adapted to be disposed within its respective tube of the calendria and in a spaced relationship thereto so as to allow flow of milk along the inner surface of the calendria tube.

Compl. specn. 9 pages.

Drg. 1 sheet.

CLASS : 187-H

159070

Int. Cl. : H 04 m 11/00.

#### LOOP-CIRCUIT FOR TELEPHONE LINE.

Applicant : COMPAGNIE GENERALE DE CONSTRUCTIONS TELEPHONIQUES, 251 RUE DE VAUGIRARD, 75740 PARIS, cedex 15, France.

Inventor : 1. BERNARD MARIE ANDRE MEUNIER.

Application No. 841/Cal/83 filed July 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A loop-circuit for a telephone line comprising a transistor of which a first electrode is directly connected to one of the wires of the line, of which a second electrode is connected to the other of the wires of the line via a resistor, of which the gate electrode is connected via a resistor to one of wires of the line, and via a capacitor to the other wire of the line, characterized in that a switch (SC2) is arranged to cut-off at will the transistor (T1), and that another switch (SC1) is arranged to disconnect one of the plates of the capacitor (C1) from the rest of the circuit.

Compl. specn. 7 pages.

Drg. 1 sheet.

CLASS : 32F<sub>2</sub>(b); 55-E.

159071

Int. Cl. : A 61 k 21/00; C 07 d 99/00.

#### PROCESS FOR THE PREPARATION OF NEW 1-OXA-1-DETHIA-CEPHALOSPORIN DERIVATIVES.

Applicants : MEIJI SEIKA KAISHA, LTD., 4-16, KYOBASHI 2-CHOME, CHUO-KU, TOKYO, JAPAN AND MERCK & CO. INC., 126, FAST LINCOLN AVENUE, RAHWAY, NEW JERSEY, U.S.A.

Inventors : 1. SEIJI SHIBAHARA, 2. TSUNEO OKONOJI, 3. YASUSHI MURAI, 4. SHUNZO FUKATSU.

5. TARO NIIDA, 6. TADASHI WAKAZAWA.

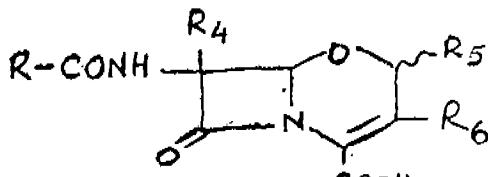
Application No. 911/Cal/83 filed July 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

wherein R, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub> and A' are as defined above, and then removing the carboxyl-protecting group (A') from said 7-N-acylation product of the formula (I').

## 7 Claims

A process for the production of the 7-acylamino-2-alkyl-1-oxa-1-dethia-3-cephem compound represented by the general formula (I) of the following drawings

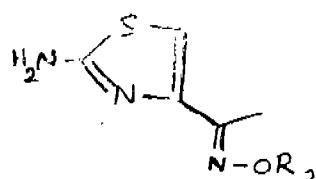


(I)

and a pharmaceutically acceptable salt or ester thereof, wherein R represents a group of the formula : R<sub>1</sub>—CH— in

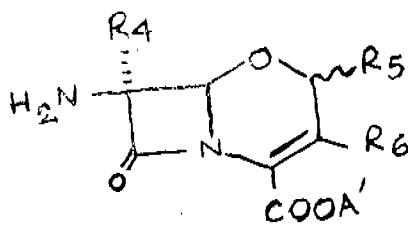


which R<sub>1</sub> is a 2-thienyl or 3-thienyl group and R<sub>2</sub> is a hydrogen atom or a carboxyl group; or R represents a group of the formula (IA)



(IA)

in which R<sub>1</sub> is a hydrogen atom, a lower alkyl or carboxyl-lower alkyl group; R<sub>4</sub> represents a hydrogen atom or a methoxy group; R<sub>5</sub> represents a lower alkyl group, particularly methyl group; R<sub>6</sub> represents a thiomethyl group bearing a hetero-cyclic ring and having the formula : —CH<sub>2</sub>—S—Het in which Het stands for an unsubstituted or substituted hetero-cyclic group, which comprises acylating the 7-amino group of a 2-alkyl-7-amino-1-oxa-1-dethia-3-cephem compound of the general formula (II)



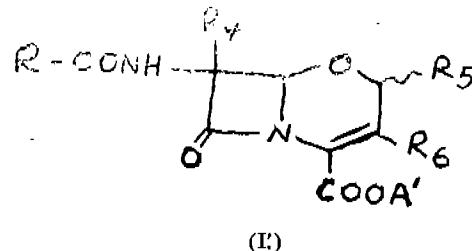
(II)

wherein R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> are as defined above and A' is a carboxyl-protecting group, with a carboxylic acid of the formula (III)



(III)

wherein R is as defined above or with functional derivative of said carboxylic acid, in an inert organic solvent under anhydrous conditions to produce the 7-N-acylation product of the formula (II)



to give the desired product of the general formula (I), converting the compound of the general formula (I) into a pharmaceutically acceptable salt or ester thereof.

Compl. specn. 115 pages.

Drg. 13 sheets.

CLASS : 172-D

159072

Int. Cl. : D 01 d 1/00.

PARALLEL VICE WITH MAIN BODY, GUIDE RAIL, SPINDLE AND AN ARRANGEMENT FOR AVOIDING END PRESSURES.

Applicant : ROLF PEDDINGHAUS OF DETERBERGSTRASSE 25, D-5828 ENNEPETAL, WEST GERMANY.

Inventor : 1. ARL JAGOB.

Application No. 924/Cal/83 filed July 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

Parallel vice comprising main body (1), guide rail (2), spindle (3) and an arrangement for avoiding end pressures, depending on clamping tensional force between the guide rail (2) and the main body (1), wherein a guide rail (2), constructed as a box section, open towards the bottom is inserted into a guide rail holding fixture (7) of the main body (1), with its upper surface (8) on an upper sliding surface (9) of the main body (1), the front sides of its profile flange resting on bottom sliding surfaces 18, wherein a spindle (3) is threaded into a spindle nut (10) secured to the main body (1), characterized in that the spindle nut (10) alongwith the spindle nut support (14) is inserted into a nut support holding fixture (15) which has a tensional force abutment (16) in the form of a slanting surface projected towards the front, in that the spindle nut (10) is provided with a supporting surface (17) complementary to said slanting surface (16) whereby, under the influence of the clamping load, the spindle nut support (14) along with the guide rail flat-supported on it, can be displaced in the direction of the sliding surface (9) of the main body (1) and can be clamped.

Compl. specn. 114 pages.

Drg. 2 sheets.

CLASS : 107-B

159073

Int. Cl. F 01 k 25/00.

GENERATION OF ENERGY.

Applicant & Inventor : ALEXANDER I. KALINA AT 12214 CLEARFORK, HOUSTON, TEXAS 77077, UNITED STATES OF AMERICA.

Application No. 975/Cal/83 filed August 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 22 Claims

An improved system for generating energy, which comprises means for—

- (a) subjecting at least a portion of an initial multi-component working fluid stream having an initial composition of lower and higher boiling components, to partial distillation at an intermediate pressure in a distillation system to distil or evaporate only part of the stream subjected to such distillation and thus generate an enriched vapor fraction which is enriched with a lower boiling component relatively to a main rich solution;
- (b) mixing the enriched vapor fraction with part of the initial working fluid stream and absorbing it therein to produce at least one such main rich solution which is enriched relatively to the initial working fluid stream with respect to a lower temperature boiling component, and using a remaining part of the initial working fluid stream as at least one lean solution which is impoverish- ed relatively to the main rich solution with respect to a lower temperature boiling component;
- (c) increasing the pressure of the main rich solution to a charged high pressure level and evaporating the main rich solution to produce a charged gaseous main working fluid;
- (d) expanding the charged gaseous main working fluid to a spent low pressure level to transform its energy into usable form; and
- (e) cooling and condensing the spent main working fluid in a main absorption stage by dissolving it in the lean solution at a pressure lower than the intermediate pressure to regenerate the initial working fluid.

Compl. specn. 51 pages.

Drg. 5 sheets.

CLASS : 104-F

159074

Int. Cl. : C 08 d 7/00.

## AN IMPROVED VULCANIZABLE RUBBER COMPOSITION.

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI, 63167, UNITED STATES OF AMERICA.

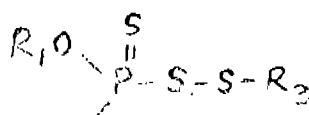
Inventor : 1. EIICHI (NMN) MORITA.

Application No. 992/Cal/83 filed August 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

An improved vulcanizable rubber composition comprising vulcanizable diene rubber of known type; a known cross-linking agent; a vulcanization accelerator selected from azoles, sulfenamides, thioureas, thiurams, xanthates, dithiocarbamates and guanidines; and optionally carbon black; the improvement residing in that the composition additionally contain from 0.1 to 5.0 parts by weight per 100 parts of the rubber by weight of a vulcanization system alternative having the formula I shown in the accompanying drawings.



wherein R<sub>1</sub> and R<sub>2</sub> are the same or different radicals selected from alkyl of 1-12 carbon atoms, phenyl, cycloalkyl of

3-8 carbon atoms and alkaryl and aralkyl of 7-12 carbon atoms, and R<sub>3</sub> is selected from the same radicals as R<sub>1</sub> or R<sub>2</sub>, optionally substituted with one or more halogen, nitro, alkoxy, carboalkoxy, acyl, acyloxy, amido, cyano, thio or sulfonyl substituents.

Compl. specn. 28 pages.

Drg. 2 sheets

CLASS : 187-H

159075

Int. Cl. : H 02 p 13/00.

## A LOOP CURRENT FEED ARRANGEMENT FOR A CHARACTERISTIC CONVERTER.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. JOHANN SONTHEIM, 2. BALDUR STUMER.

Application No. 912/Cal/83 filed July 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A loop current feed arrangement for a characteristic converter having two simulated feed resistors for connection to respective poles of a voltage supply and connected via filter means to respective wires of a telephone line in which the loop current is to flow wherein each of the simulated feed resistors comprises a series arrangement of a feed choke and an electronic switch for connection to the voltage supply, a regulating device arranged for maintaining constant the ratio of the voltage drop across the simulated feed resistors to the loop current by closing or opening the electronic switches, and switching elements provided at the switch-side terminal of the feed chokes via which the loop current flows when the electronic switches are open.

Compl. specn. 24 pages.

Drg. 5 sheets

CLASS : 90-E

159076

Int. Cl. : C 03 b 5/02, 5/24.

## A METHOD FOR THE PRODUCTION OF MOLTN GLASS AND FORMED PRODUCT THEREOF AND AN APPARATUS THEREFOR.

Applicant : OWENS-CORNING FIBERGLAS CORPORATION OF FIBERGLAS TOWER, TOLEDO, OHIO-43659, U.S.A.

Inventors : 1. CHARLES SCHEELER DUNN, 2. MARK ALBERT PROPSTER, 3. CHARLES MAURICE HOHMAN.

Application No. 918/Cal/83 filed July 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A method for the production of molten glass and formed product thereof by electric melting in a melting furnace which consists in confining a pool of molten glass above a furnace bottom wall, depositing a layer of unmelted particulate glass batch on the surface of the said molten pool, said pool of molten glass having located at a vertically medical portion thereof, heating electrode followed by :—

- (a) heating the pool of molten glass by said electrodes to form an isothermal layer of molten glass; allowing;
- (b) circulation of heated glass upwardly from the electrode location and thereby melting the said glass batch layer;

- (c) allowing returning of most of the glass back to the electrode location for reneating while allowing a portion of the glass to flow downwardly beyond the electrode location;
- (d) directing the molten glass located beneath the electrodes through a vertical outlet passage and feeding same directly through the outlet passage into a forming apparatus underlying the pool as glass is withdrawn through said forming apparatus; and
- (e) flowing a heat exchange medium through a heat exchanger located above the forming apparatus in heat exchange relation (i) with the furnace bottom wall and (ii) with the downwardly flowing glass in said outlet passage in a manner to cool the molten glass in successive, essentially isothermal layers, the glass issuing from said passage being at a substantially uniform temperature which is conducive to forming in said forming apparatus.

Compl. specn. 30 pages. Drg. 8 sheets.

CLASS : 33-A 159077

Int. Cl. : B 22 d 11/14.

**APPARATUS FOR CONTROLLING A CONTINUOUS CASTING PLANT.**

Applicant : METACON AG., OF OERLIKONERS-TRASS 88, 8057 ZURICH, SWITZERLAND.

Inventors : 1. BERNHARD TINNES, 2. HEING KREUZBERG.

Application No. 984/Cal/83 filed August 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**7 Claims**

Apparatus for controlling a continuous casting plant, with a governor slide valve provided on a tundish and a control loop controlling the governor slide valve for maintaining constant the level in the mould, as well as with an evaluation circuit and at least one pickup associated with the plant and connected to said circuit for producing a break-out signal, characterized in that a displacement transducer associated with the governor slide valve is provided and the evaluation circuit comprises a time-based differentiating element.

Compl. specn. 14 pages. Drg. 1 sheet.

CLASS : 64-B<sub>1</sub> 159078

Int. Cl. : H 01 r 9/04.

**CLAMPING ELEMENT FOR CONNECTING ELECTRIC CONDUCTORS WITHOUT WELDING, SCREWING AND BARING.**

Applicant : KRONE GMBH, OF GOERZALLEE 311, 1000 BERLIN 37, WEST GERMANY.

Inventors : 1. HERMANN HERFORT, 2. GUNTER HEGNER.

Application No. 1022/Cal/83 filed August 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**4 Claims**

A clamping element for connecting electric conductors without welding, screwing and baring comprising of two clamping slits formed by two outer connecting limbs and a common central web, characterised in that the clamping element (1) consists of one stamped metal part having two longitudinal slits (2a, 3a) for delimiting the two outer connecting limbs (2, 3) and the central web (10), adjoining the said slits in the longitudinal direction are provided

two bending edges (11, 11a) at which the connecting limbs (2, 3) are bent over towards one another by 180° in the direction of the central web (10).

Compl. specn. 7 pages.

Drg. 2 sheets.

CLASS : 65-B<sub>2</sub>

159079

Int. Cl. : H 01 r 3/00.

**SWITCHING DEVICES.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. GREGORY JAMES GOLUB, 2. ALBERT MAURICE JENKINS.

Application No. 1024/Cal/83 filed August 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A switching device between two electrical supply lines for use with electrical inductive apparatus, comprising :

- a tank having a side wall for containing electrical inductive apparatus;
- a pair of open-close switches mounted on the side wall and electrically connected to said apparatus to provide three-and four-position switching;
- each switch having an operating shaft, a movable contact structure on the shaft, and spaced stationary contact structures disposed on the switch for simultaneous open-close switching;
- the operating shafts having separate shaft portions;
- an operating handle external of the tank and connected to the separate shaft portions;
- linkage means coupled between the operating shaft portion and the handle to provide

- (a) four-position switching including
  - (1) transformer closed through both switches,
  - (2) transformer closed through the one switch,
  - (3) transformer closed through the other switch,
  - (4) transformer open through both switches, or
- (b) three-position switching including transformer grounded, closed, or open, when one of the electrical supply lines is grounded.

Compl. specn. 9 pages.

Drg. 5 sheets.

CLASS : 127G, 134B

159080

Int. Cl. : F16h-1/12, B 60 k-17/00, B 62 m-11/00.

**A MODULAR HYPOID AXLE ASSEMBLY.**

Applicants : BHARAT GEARS LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT HOECHST HOUSE, 14TH FLOOR, NARIMAN POINT, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventor : BALASUBRAMANIAN SHANKAR.

Application No. 11/Bom/1984 filed on 16th January, 1984.

Complete after Prov. left on 13th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 3 Claims

A modular hypoid axle assembly comprising a central housing for housing a modular pinion cartridge sub-assembly and a modular ring gear differential sub-assembly the said central housing being single piece casting having integrally formed two tubular sides, being used to shrink on wheel axle tubes, to render said housing dust proof, a front end flange integral with said central housing having means for fixing thereto corresponding front end flange of split casing for the modular pinion cartridge sub-assembly and a rear end flange integral with said central housing having means for fixing thereto a sheet metal cover having an oil hole fitted with cap nut; the said modular cartridge sub-assembly consisting of a pinion (bevel gear) having a nose mounted within a bearing mounted on a seat in the said central housing, and having a extension shaft mounted on a pair of bearings supported on straddle fixed to the said split casing, of a cartridge, the said extension shaft being rotatably fitted to a ferrule which in turn is adapted to be fitted to one end of a propeller shaft fitted with a prime mover at the other end the said modular ring gear differential sub-assembly consisting of a ring gear (bevel) in mesh with said pinion (bevel gear) of the cartridge sub-assembly, the said ring gear being fitted to a split casing of a spider assembly formed by two spider pinions (bevel gears) meshing with two side bevel gears each fitted to the wheel axle shafts; the said casing of cartridge sub-assembly is provided with an oil gallery aligned with a grooved passage provided on one side of said central housing for circulating therethrough lubricating oil splashed by rotation of said ring gear for lubricating said two bearings of the extension shaft of said pinion of the cartridge; the split casing of the spider assembly being provided with oil holes for lubricating the said spider pinions and the said side bevel gears.

Prov. specn. 6 pages.

Drg. 1 sheet

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 87A

159081

Int. Cl. : A 63 b 21/00.

## PHYSICAL EXERCISING DEVICE.

Applicant : BULLWORKER PRIVATE LIMITED, AN INDIAN COMPANY OF MEHTA MAHAL, 15, MATHEW ROAD, BOMBAY-400 004, INDIA.

Inventor : RAJESH NARANG.

Application No. 300/Bom/83 filed on September 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims

A physical exercising device comprising two foot-supports adjustably fitted on a rod, and a gripping handle adapted to be gripped at its two ends by the user in palms up or palms down position, characterised in that said rod for the foot-supports and said gripping handle are connected to each other at the mid-points thereof by a plurality of detachable coil springs having uniform characteristics, such that overall spring tension of the device is capable of being varied, as desired, by selecting the number of the detachable springs, with the consequence of stepped change in tensile force exerted by the user during exercise.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 127 G

159082

Int. Cl. : G 05 d 13/00.

## AN IMPROVED POWER TRANSMISSION SYSTEM FOR MOTOR VEHICLES.

Applicant : BAJAJ AUTO LIMITED, AN INDIAN COMPANY OF AKURDI PUNE-411035, MAHARASHTRA, INDIA.

Inventor : (1) MYSORE SUBBARAU KESHAV, (2) AVINASH RAMVILAS GUPTA (3) PRAKASH ACHUT-RAO SANE.

Application No. 47/Bom/84 filed on February 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 8 Claims

An improved power transmission system for motor vehicles comprising a driving pulley on the engine shaft and a driven pulley on the output shaft, both pulleys having variable pitch diameter and a V-belt passing around them and coupling them the driving pulley having a fixed half portion fixed on a first bush on the engine shaft and a movable half portion linearly displaceable on the first bush relative to the said fixed half portion by a known speed responsive device, the driven pulley having a fixed half portion fixed on a second bush mounted on the output or driven shaft on the same side as the movable half portion of the driving pulley, the second bush being rotatable relative to the output shaft, and a movable half portion linearly displaceable relative to the said fixed half portion fixed on a third bush surrounding the second on the output shaft, on the same side as the fixed half portion of the driving pulley and normally pressed towards the fixed half portion by a coil spring clutch means for coupling the fixed half portion of the driven pulley to the output shaft and further means for coupling the movable half portion of the driven pulley to the said second bush on the output shaft, when the engine of the vehicle is suddenly accelerated.

Compl. specn. 15 pages.

Drg. 2 sheets.

CLASS : 102 D

159083

Int. Cl. : F 15 d 1/00.

## GUIDE CASE FOR IMPARTING A HELICAL SWIRL TO A FLOWING LIQUID AND A TURBINE OR PROPELLOR HAVING A GUIDE CASE.

Applicant & Inventor : DAVID GEORGE DE MONT-MORENCY, CANADIAN NATIONAL OF 276, BLAIR ROAD, CAMBRIDGE, ONTARIO, CANADA.

Application No. 96/Bom/1984 filed on April 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 10 Claims

Guide case, for receiving a flow of fluid in an inlet duct, for discharging the fluid from an outlet duct, and for imparting to the discharged fluid a helical component of motion comprising :

fixed inner and outer tubes defining between them an annular chamber, one axial end of which comprises the outlet duct;

fixed inner and outer, front and back walls, which define the inlet duct, with the inner and outer walls being parallel to the axis of the chamber and merging smoothly tangentially with the inner and outer tubes respectively; and

a fixed helical wall, merging smoothly with the back wall, extending radially between the tubes, and disposed helically along and around the inner tube, and defining and sealing off the other axial end of the annular chamber.

Compl. specn. 12 pages.

Drg. 3 sheets

CLASS : 134 B; 127 A

159084

Int. Cl. : F 16 d—11/00, 13/00, 19/00.

## IMPROVEMENT IN OR RELATING TO THE CLUTCH OF A MOTOR VEHICLE, PARTICULARLY IN TWO WHEELED MOTOR VEHICLES AND THREE WHEELED MOTOR VEHICLES.

Applicants : BAJAJ AUTO LTD., AKURDI, POONA-411035, MAHARASHTRA, INDIA.

Inventors : (1) MYSORE SUBBARAU KESHAV, (2) SHRIKANT SHIRIRANG KHASNIS AND (3) CHARUDATTA YESHVANT DESHPANDE.

Application No. 139/Bom/1984 filed on May 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 2 Claims

A clutch for motor vehicles comprising a first bush secured to engine shaft, and also to a clutch box or casing, a plurality of driving plates secured to the clutch box or casing, and a plurality of driven plates sandwiched between the said driving plates, and secured to a second bush the second bush being connected to input shaft of a gear box, the driving and driven plates being normally pressed together by the force of a coaxial diaphragm type spring provided in-between the said casing and the said first bush thereby applying the clutch and moved away from each other when an outer force is applied to the casing against the spring force for releasing the clutch the said diaphragm type spring being in the form of a dished annular discs having a plurality of spaced radial slots extending from its central opening towards its outer edge, the teeth formed in-between the said slots being pressed outwardly to act as springs.

Compl. specn. 8 pages.

Drg. 1 sheet.

CLASS : 19 A

159085

Int. Cl. : F 16 b—27/00, 37/04.

### A NOVEL ANCHORING NUT-BOLT.

Applicant & Inventor : SHAMAL BABUBHAI MISTRI, AN INDIAN CITIZEN, 25 SHIV-SHAKTI INDUSTRIAL ESTATE, KURLA ANDHERI ROAD, SAKI NAKA, ANDHERI, BOMBAY-400 059, MAHARASHTRA, INDIA.

Application No. 235/Bom/84 filed August 25, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 3 Claims

An improved anchoring nut-bolt comprising an expandable contractable sleeve forming interlocking jaws, each of said jaws having a pair of transversely extending tongues in opposed relationship with each other at the bolt side end and the nut side end of said jaw forming a seat for slidably mountable tapering nut having a tapering nose forming a guide for said nut and facing the bolt side end opposite to said nose end of nut ending in a skirt having a square or hexagonal nut wall, the said nut end of said jaw having a V-slot, the arms of which are extended to form bent lugs for gripping therebetween the said nut and preventing it from sliding out from said sleeve; said extension tongues are alternately separated from each other by respective collars forming seats for corresponding adjacent extension tongues on the other of said jaw portion to form a sleeve when said tongues are bent to form overlapping embracing grip on respective collars of the other of said jaw; and a bolt with a washer for said nut inserted into the sleeve from the bolt thereof.

Compl. specn. 9 pages.

Drg. 1 sheet.

CLASS : 49C + F

159086

Int. Cl. : A 47 J 19/02.

### JUICE SQUEEZING DEVICE.

Applicants : (1) MANILAL NEMCHAND KOTADIA, (2) RAMESH MANILAL KOTADIA, (3) VIKRAM MANILAL KOTADIA, (4) MASTER VIHANG VASANTLAL KOTADIA, TRADING AS MANEK METAL INDUSTRIES, 15, BADA MANDIR, GAUSHALA, BOMBAY-400 002, MAHARASHTRA, INDIA.

Application No. 267/Bom/1984 filed September 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 2 Claims

A juice squeezing device comprising two levers hinged together substantially in the middle, one side of one of the said two levers has a pressing device attached to it by conventional process e.g. spot welding and the other of the said two levers has the strainer holder device attached to it by same conventional process e.g. spot welding characterised by that the lever has been extended to embrace the entire circumference of the strainer holder device and the other lever has been extended to cover the entire diameter of a disc which has been attached with the pressing device and the lever has been welded to the disc, further characterised by that the other ends of the levers are provided with covers which act as handles and further characterised by that each lever is made of two strips joined together by some conventional process e.g. spot welding.

Compl. specn. 8 pages.

Drg. 3 sheets

CLASS : 85 J

159087

Int. Cl. : F 27 B 15/00.

### IMPROVEMENT IN OR RELATING TO FLUIDISED BED BOILER.

Applicants : THERMAX PRIVATE LIMITED, AN INDIAN COMPANY OF CHINCHWAD, PUNE-411 019, MAHARASHTRA, INDIA.

Inventor : NARENDRA DATTTATRAYA JOSHI.

Application No. 273/Bom/1984 filed on 27th September 1984.

Complete after provisional left on 16th December 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

### 5 Claims

A fluidised bed boiler comprising the plenum chamber, the static bed, the distributor, the heat exchanger and the flue exhaust, characterised in that a flue gas pipeline is connected from the flue exhaust to a flue gas circulation for injecting flue gas into the distributor.

Provisional specn. 3 pages.

Drg. 1 sheet.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 128H

159088

Int. Cl. : A 61 b—17/42.

### IMPROVED INTRA-UTERINE CONTRACEPTIVE DEVICE AND DEVICE FOR INSERTING IT INTO UTERINE CAVITY.

Applicants : GIRIRAJ CORPORATION, 107, CHURCH-GATE CHAMBERS, NEW MARINE LINES ROAD, BOMBAY-400 020. A SOLE PROPRIETARY INDIAN CONCERN.

Inventor : MRS. KUSUM RATJI AL SHAH.

Application No. 287/Bom/1984 filed on 18th October 1984.

Complete after provisional left on 17th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 10 Claims

An improved intra-uterine contraceptive device which consists of a circular longitudinal member having a length of 1.40 to 1.45 inches and diameter of 0.055 to 0.065 inch,

having fixed at its upper end two circular transverse arms, each arm having a length of 1.2 to 1.3 inches and diameter of 0.05 to 0.07 inch, disposed oppositely, making any desired angle with the longitudinal member and a physiologically acceptable nylon thread is tied to the lower end of the longitudinal member.

Prov. specn. 4 pages.

Drg. Nil.

Comp. specn. 7 pages.

Drg. 1 sheet.

CLASS : 67 C, 148 H 159089

Int. Cl. : H 05 g—1/30 || H 04 q—9/00.

**A CORDLESS REMOTE CONTROL UNIT FOR SHOOTING X-RAY PICTURES BY X-RAY MACHINE.**

Applicants : AAPRANSHU MEDICO ELECTRONICS PRIVATE LIMITED, AN INDIAN COMPANY DULY REGISTERED AND INCORPORATED UNDER COMPANIES ACT AND HAVING ITS REGISTERED OFFICE AT : C-6 ASHVINI SOCIETY, BOMBAY-PUNE ROAD, WAKDWADI, PUNE-411 005, MAHARASHTRA, INDIA.

Inventors : SAMIR ASHOK SHRINGARPURE, SANJAY DINKAR KARKHANIS.

Application No. 290/Bom/1984, filed on 20th October, 1984.

Complete after provisional left on 18th October, 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Bombay Branch.

**4 Claims**

A cordless remote control unit for shooting X-ray pictures by X-ray machine comprising a combination of an IR transmitter and an IR, receiver wherein the IR transmitter comprises a combination of different modules consisting a power supply block, a frequency generator block and IR LED transmitter; and said IR receiver comprises a combination of different modules consisting an IR sensor, OP-AMP/Pre-Amp and filter block a power supply, stand-by relay, a delay circuit, X-ray relay, a Stand-by switch connected to said-by relay and said X-ray relay connected to X-ray switch for shooting X-ray picture being connected in the manner as shown in schematic block diagram of Figure-1 of the drawing accompanying the provisional specification, the whole arrangement being such that said IR transmitter is powered by 12-Volt Nickel-Cadmium re-chargeable cells with a drain of 30mA and said IR receiver being powered by a 12-Volt Nickel-Cadmium rechargeable cells with a drain of 50 mA and in that said stand-by switch is programmable for programming a few operations of X-ray machine to prepare it for shooting X-ray picture and in that said IR transmitter generates an Infra Red pulse of short duration which when directed towards the receiver actuates the X-ray exposure mechanism in the control panel of X-ray machine, and said IR transmitter is having IR pulse indicator giving LED indication.

Provisional specn. 5 pages.

Drg. 1 sheet.

Compl. specn. 10 pages.

Drg. 1 sheet.

CLASS : 170 B 159090

Int. Cl. : C 11 d—1/83, 3/06, 3/14.

**Title : LIQUID SCOURING COMPOSITIONS.**

Applicant : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : DAVID MACHIN, AND JOHN FIFLDEN HELLIWELL.

Application No. 302/Bom/1984 filed October 29, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**10 Claims**

A liquid scouring composition comprising, by weight of the total composition, from 1 to 65% of a particulate abrasive material, and from 35 to 99% of an aqueous liquid suspending medium, which comprises, by weight of the medium :

- (a) from 3 to 15% of a synthetic anionic detergent-active material;
- (b) from 1 to 12% of a zwitterionic and/or alkoxyated non-ionic detergent-active material;
- (c) a foam-regulating system comprising :
  - 1. from 0.5 to 7% of tripolyphosphate electrolyte; and
  - \* 2. from 0.05 to 8% of a  $\text{Ca}^{2+}$ -dependent foam-depressing agent as herein described the weight ratio between component (1) and component (2) being within the range of from 1 : 1 to 8 : 1; and (d) optionally, up to 20% by weight of further electrolytes.

Compl. specn. 13 pages.

Drg. Nil.

CLASS : 90-I 159091

Int. Cl. : C 03 b 23/02.

**APPARATUS AND METHOD FOR LOCALLY HEATING CONVEYED GLASS SHEETS.**

Applicant & Inventor : JOHN STEPHEN NITSCHKF, OF 650 W. FRONT STREET, PERRYSBURG, OHIO 43551, U. S. A.

Application No. 1027/Cal/83 filed August 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**7 Claims**

In a glass sheet bending system comprising a heating chamber, a conveyor (12) for conveying glass sheets through a heating chamber from an upstream position to a downstream position for heating to a sufficiently high temperature for bending, a bending station for bending heated glass sheets, at least one localized heater (34 or 36) mounted for movement relative to and independent of a conveyed glass sheet for providing localized heating of each glass sheet transverse to the direction of conveyance as the glass sheet moves from the upstream position to the downstream position, the improvement comprising an actuator (32, 68) for moving the heater to track each glass sheet in the direction of conveyance from the upstream position to the downstream position.

Compl. specn. 17 pages.

Drg. 3 sheets.

CLASS : 104-P 159092

Int. Cl. : C 08 d, 13/28.

**PROCESS FOR THE PREPARATION OF THERMOPLASTIC ELASTOMERS.**

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDERGH BOULEVARD, ST. LOUIS, MISSOURI, 63167, UNITED STATES OF AMERICA.

Inventors : 1. SABET (NMN) ABDOU-SABET, 2. KUOSHEIN (NMN) SHEN.

Application No. 1030/Cal/83 filed August 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims	CLASS : 148-H	159095
In a process for preparing thermoplastic elastomer composition comprising a blend of plastic and cured rubber by dynamic vulcanization, the improvement comprising masticating during dynamic vulcanization a composition comprising a blend of plastic and rubber at a shear rate at least 2000 <sup>-1</sup> sec.	Int. Cl. : G 03 g 15/00.	
Compl. specn. 13 pages.	COPYFINISHING APPARATUS.	
Drg. Nil.	Applicant : XEROX CORPORATION OF XEROX SQUARE, ROCHESTER, NEW YORK, UNITED STATES OF AMERICA.	
CLASS : 146-C	Inventor : JAMES CECIL BURGESS KEEPING.	
Int. Cl. : G 12 b 1/00.	Application No. 1156/Cal/83 filed September 21, 1983.	
DEVICE FOR DETERMINING THE POSITION OF THE CUTTING HEAD OF A DRIFT ADVANCING MACHINE OR OF A WINDING MACHINE.	Convention dated 21st September, 1982 (82 26819) U.K.	
Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA FRIEDRICHSTRASSE 4, AUSTRIA.	Appropriate office for opposition proceedings (Rule Patents Rules, 1972) Patent Office, Calcutta.	
Inventors : 1. EDUARD SCHELLENBERG, 2. ALFRED ZITZ, 3. BERNHARD DROSCHER.	10 Claims	
Application No. 1035/Cal/83 filed August 24, 1983.	Copy finishing apparatus comprising a first support surface for compiling sheets delivered serially thereto into sets, a second support surface arranged underneath said first support surface for receiving and stacking sets from said first support surface, and transport means for conveying sheets around an inversion or direction reversing path between said support surfaces.	
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.	Compl. specn. 15 pages.	Drg. 9 sheets
9 Claims	CLASS : 40-F	159096
Device for determining the position of the cutting head of a drift advancing machine or of a winding machine, comprising a receiver (8) oriented relative to the longitudinal axis of the drift and adapted to be mounted within the drift; a transmitter (6) for electromagnetic radiation within the wave range of 1 cm to 10 cm arranged on the cutting head (4) and/or on a cutting arm (3); and a telemeter for determining the distance (r) of at least 1 reference point on the cutting head (4) and/or the cutting arm (3) from the receiver (8).	Int. Cl. : B 01 j 1/00.	
Compl. specn. 12 pages.	LIQUID DEGASIFICATION DEVICE.	
Drg. 3 sheets	Applicant & Inventor : HENRY C. LASATER OF P.O. BOX 616, CUBA, NEW MEXICO 87013, UNITED STATES OF AMERICA.	
CLASS : 49-E	Application No. 1221/Cal/83 filed October 3, 1983.	
Int. Cl. : A 47 j 27/08.	Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.	
STEAM PRESSURE COOKER.	6 Claims	
Applicant & Inventor : DR. HANS-GEORGE BOEHM OF KELLEGGRUNDWEG 13, 6242 KRONBERG/TAUNUS, WEST GERMANY.	A liquid degasification device for the degasification of liquids such as water, characterized by :	
Application No. 1075/Cal/83 filed September 3, 1983.	a degasification column for removal of dissolved gases which are in solution with water and having a top and a bottom, said column having a length exceeding the height of the water which would be supported within the column by atmospheric pressure when the top of the column is in substantially evacuated condition;	
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.	a water reservoir;	
11 Claims	means for venting gases from the top of said column	
Steam pressure cooker consisting of an open-top cooking goods container with a rim surrounding the opening and extending a round it uniformly, with a lid which with its rim can be placed on the container rim and comprises a safety valve and a closing mechanism whose locking members, forcing the rims of container and lid onto each other in locking condition, can be jointly adjusted between an opening position and a closing position with the aid of an operating device which is movable relative to the lid, characterized in that the lid (2) consists of a center hood (4) and, surrounding it concentrically, a frame (5) which relative to the container (1) is sealed with the aid of a profiled gasket (7) known as such, with the hood (4) engaging the frame (5) in overlapping fashion and bearing on a gasket which is held on the underside of the frame (5).	means for selectively sealing said venting means;	
Compl. specn. 11 pages.	means for selectively draining degassed water from said column;	
Drg. 4 sheets	means for selectively connecting said column to said reservoir for controlling water flow therebetween; and	
CLASS : 129-G & M	a container under a vacuum and connected with said means for selectively draining degassed water to receive and retain degassed water.	159097
Int. Cl. : B 23 d 21/02.	Compl. specn. 8 pages.	Drg. 1 sheet
APPARATUS FOR CUTTING OVAL TUBES.	Applicant : PONT. A. MOUSSON S.A., OF 91 AV. DE LA LIBERATION F 54000 NANCY, FRANCE.	

Inventor : 1. FUMINIER CLAUDE BARTHELEMY.

Application No. 1237/Cal/83 filed October 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

Apparatus for cutting oval tubes (T), comprising :

a stationary frame (1) having an opening (10) through which the tube (T) to be cut passes horizontally; rotational driving means (3);

a series of rollers (2aa, 2ab, 2b) fastened onto the frame (1) and disposed coaxially with reference to the tube so as to support and maintain said tube while at least one of said rollers connected to said driving means turns the tube (T) about its axis (T-T), the tube (T) remaining translationally stationary;

at least one cutting tool (12) that can be adjusted radially for cutting the tube;

a common support-piece (20) integrally joined to said cutting tool and a corresponding roller (2b) which can be moved within a plane that is perpendicular to the longitudinal axis (T-T) of the section of the tube (T) to be cut, whereby said cutting tool and roller are mechanically paired in the radial direction.

Compl. specn. 28 pages.

Drg. 5 sheets.

CLASS : 69-B.

159098

Int. Cl. : H 01 h 71/00.

A MOULDED CASE CIRCUIT BREAKER.

Applicant & Inventor : NARASHINHA GOVIND KAMAT, C/o PRABHU SARASWATI NIKEET, 5, CAMAC STREET, CALCUTTA-700 017, STATE OF WEST BENGAL, INDIA.

Application No. 1253/Cal/83 filed October 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A moulded case circuit breaker comprising a casing made of a thermosetting plastic material having a cover and a base portion within which is provided an arc chamber having a plurality of arc splitters and a loop provided therein, said loop having the supply terminal at one end and forming the fixed contact of the moulded case circuit breaker at the other end and co-operates with a moving contact provided with the moulded case circuit breaker, the fixed contact and moving contact each having arc runners fitted therein respectively, said moving contact capable of being actuated by a dolly knob for manual operation and is further provided with a transformer, a transistor, a solenoid and a electronic circuit card/package for automatically tripping the moulded case circuit breaker in case of overload, the moving contact being connected to a flexible tie and linked with a tripping mechanism through a cross insulated bar or arm, said flexible tie being fixed to two conductors being a main conductor and a by-pass conductor, said main conductor adapted to pass through said transistor with the by-pass conductor passing outside of the transistor, the said main conductor and the by-pass conductor being clamped to the load terminal of the moulded case circuit breaker.

Compl. specn. 22 pages.

Drg. 7 sheets.

CLASS : 32-F, a

159099

Int. Cl. : C 07 c 43/00.

PROCESS FOR PRODUCING 3-PHENOXYBENZYL 2-(4-ALKOXYPHENYL)-2-METHYLPROPYL ETHERS.

Applicant : MITSUI TOATSU CHEMICALS, INC., OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

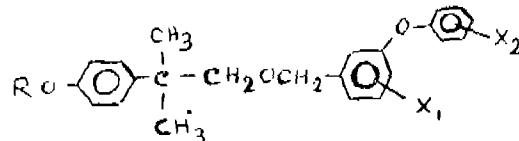
Inventors : 1. MITSUMASA UNEMOTO, 2. TOMOTSU ASANO, 3. TERUYUKI NAGATA, 4. SATOSHI NUMATA.

Application No. 1286/83 filed October 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

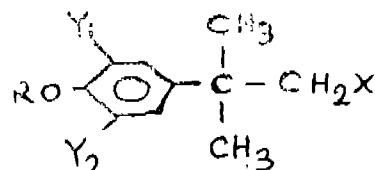
4 Claims

A process for producing 3-phenoxybenzyl 2-(4-alkoxyphenyl)-2-methylpropyl ethers represented by the formula (IV) shown in the accompanying drawings,



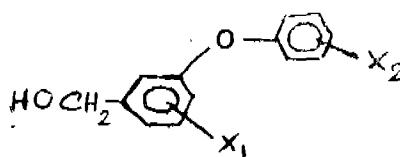
wherein R is a C<sub>1</sub>—C<sub>3</sub> alkyl group, and X<sub>1</sub>

and X<sub>2</sub> are each a hydrogen or fluorine atom, which comprises reacting a 3-halogeno-4-alkoxyneophyl halide represented by the formula (I) shown in the drawings,



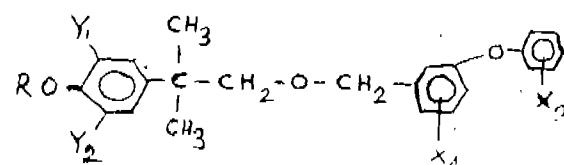
wherein Y<sub>1</sub> and Y<sub>2</sub> are each a hydrogen, chlorine or bromine atom, at least one of them being a chlorine or bromine atom, R has the same meaning as defined above, and X is a halogen atom,

with a 3-phenoxybenzyl alcohol represented by the formula (II) shown in the drawings,



wherein X<sub>1</sub> and X<sub>2</sub> have the same meaning as defined above,

in the presence of a base selected from an alkali metal hydroxide, an alkali earth metal hydroxide, an alkali metal hydride, an alkali metal alcoholate, an alkali metal oxide, or an alkali metal carbonate, in an aprotic polar solvent containing no sulfur atom to obtain a 3-phenoxybenzyl 2-(4-alkoxy-3-halogenophenyl)-2-methylpropyl ether represented by the formula (III) shown in the drawings,



wherein Y<sub>1</sub>, Y<sub>2</sub>, R, X<sub>1</sub> and X<sub>2</sub> have the same meaning as defined above,

and then subjecting the product to a hydrodehalogenation reaction.

Compl. specn. 38 pages.

Drg. 1 sheet.

CLASS : 41-C

159100

Int. Cl. : A 24 d 1/06, A 24 f 47/00;  
F 23 g 3/01.

## CIGARETTE PACKET WITH ELECTRIC LIGHTER.

Applicant & Inventor : DIPL-ING. HANS OSTERRATH,  
OF SASSMANNSHAUSEN, D-5928 LAASPHE-3, WEST  
GERMANY.

Application No. 1290/Cal/83 filed October 20, 1983.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 21 Claims

A cigarette packet with an electric lighter for the cigarettes  
contained in the packet, in which :

- (a) the lighter is arranged at the closed end of the packet which is opposite the end from where the cigarettes are pulled out of the packet, and comprises an electric battery as well as a pair of first and second electrically conductive contacts one of which is connected to the positive pole and the other one is connected to the negative pole of the battery, and
- (b) each of the cigarettes is provided at one end with a lighting part which can be brought into contact with the contacts and, as a result of the current which is then supplied by the battery, can be heated to a temperature which suffices to light the cigarette in question,

characterized in that, so as to light the cigarettes (B) when pulling them out of the packet (A),

- (c) the cigarettes (B) are each arranged in the packet (A) with the end provided with the lighting part (F) positioned at the closed end of the packet (A'),
- (d) the first contact (D) extends inside the packet (A) away from the closed end of packet (A') to the end (A'') from where the cigarettes (B) are pulled out of the packet (A), so that each cigarette (B), when pulled out of the packet (A), moves with the lighting part (F) towards the first contact (D) and then slides with the lighting part (F) along the first contact (D), and
- (e) the second contact (E) extends inside the packet (A) to the lighting part (F) of each cigarette (B) contained therein, and is connected to this lighting part (F) in an electrically conductive manner until the cigarette (B) has been pulled out of the packet (A) by a certain distance.

Compl. specn. 14 pages.

Drg. 2 sheets

CLASS : 205-A &amp; H

159101

Int. Cl. : B 29 d 23/05; B 60 c 3/00, 9/02, 11/00.

IMPROVEMENTS IN THE MANUFACTURE OF  
PNEUMATIC TYRES.Applicant : W & A. BATES LIMITED, OF 19 NEW  
BRIDGE STREET, LONDON, ENGLAND.

Inventor : 1. ANTHONY GERALD GOODFELLOW.

Application No. 1294/Cal/83 filed October 21, 1983.

Convention dated 2nd November, 1982 (82 31308) U.K.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

In the manufacture of a pneumatic tyre, a method of  
manufacturing a partially-built carcass for the pneumatic  
tyre comprising a locating a pair of tyre bead elements  
coaxially at opposite ends of a bead tube in axially spaced

relationship predetermined by the length of the tube, said bead tube supporting only the axially inner side of each bead element, locating within the tube an expandable former around which the carcass material is wrapped so that the material extends axially within the tube and the bead elements and projects axially beyond the bead elements at each end, expanding the carcass material to engage the bead elements and turning each projecting end portion of the carcass material radially outwardly around the respective bead element whilst the bead elements are supported by the tube.

Compl. specn. 11 pages.

Drg. 3 sheets

CLASS : 56D

159102

Int. Cl. : F 25 b 39/02 &amp; B 01 d 1/02.

## AN EVAPORATOR.

Applicant : STAINCO ENTERPRISES PVT. LTD., AN  
INDIAN COMPANY OF 4TH FLOOR, 405 KUSHAL  
BAZAR, NEHRU PLACE, NEW DELHI-110019, INDIA.

Inventor : SWAPAN DAS GUPTA.

Application for Patent No. 278/Del/80 filed on 17th  
April, 1980.

Post dated to 17th August, 1980.

Complete specification left on 25th September, 1981.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 11 Claims

An evaporator for use in the dairy industry consisting of plurality of preheaters, a high heater and a plurality of calendrias such that the milk to be evaporated flows sequentially through the preheaters, high heater and thereafter through the calendrias, a plurality of tubes stacked in each of said calendrias, said preheaters comprising a straight tube preheater characterized in that, at least one of said calendrias has a flow coil provided therein for forming an auxiliary preheater for preheating of the milk and connected to the preheater.

Provisional specn. 8 pages.

Complete specn. 21 pages.

Drg. 2 sheets

CLASS : 32-E

159103

Int. Cl. : C 08 g 5/00.

METHOD FOR PRODUCTION OF CONDENSATE OF  
ALDEHYDE COMPOUND AND PHENOL COMPOUND  
IN PARTICULATE FORM.Applicant : KANEKA FUCHI KAGAKU KOGYO KABU  
SHIKI KAISHA, OF 2-4, 3-CHOME, NAKANOSHIMA,  
KITA-KU, OSAKA-SHI, JAPAN.Inventors : 1. HIROSHI SHIBAHARA, 2. HIROMITSU  
TACHIBANA.

Application No. 1313/Cal/83 filed October 25, 1983.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A method for production of particulates of a condensate of an aldehyde compound and a phenol compound, said method comprising dispersing a viscous condensate obtained by the reaction of an aldehyde compound with a phenol compound into cold water or hot water by the aid of a dispersing agent, and then solidifying said condensate.

Compl. specn. 13 pages.

Drg. Nil.

CLASS : 32-F<sub>1</sub> 159104  
Int. Cl. : C 07 c 17/02.

## PROCESS FOR MAKING 1, 2-DICHLOROETHANE.

Applicant : HOECHST AKTIENGESELLSCHAFT, D 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. JOACHIM HUNDECK, 2. HARALD SCHOLZ, 3. HANS HENNEN.

Application No. 1378/Cal/83 filed November 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

Process for making 1, 2-dichloroethane by reacting ethylene with chlorine in a solvent in the presence of a catalyst and, if desired, an agent inhibiting by-product formation, at a temperature of 20 to 200°C at atmospheric or elevated pressure, and distillatively separating the 1, 2-dichloroethane from the chlorination mixture, which comprises : using, as the catalyst, an anhydrous tetrachloroferrate (1-) or a substance capable of forming a tetrachloroferrate (1-) in the reaction mixture.

Compl. specn. 12 pages. Drg. Nil.

CLASS : 32-F<sub>1</sub> + 32-F<sub>8</sub> a 159105  
Int. Cl. A 61 k 23/00, 27/00;  
C07c 87/24, 87/28.

A PROCESS FOR THE PREPARATION OF ALKYL- $\alpha$ -CARBETHOXY- $\beta$ -(ARYLAMINO) ACRYLATES.

Applicant : RECKITT & COLMAN OF INDIA LIMITED OF 41, CHOWRINGHEE ROAD, CALCUTTA-700071, STATE OF WEST BENGAL, INDIA.

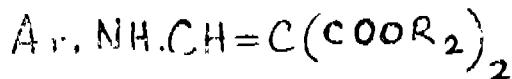
Inventors : 1. DR. SURENDRA PRASAD BHATNAGAR, 2. DR. BAJRANG BALI SINGH, 3. DR. CHOLLAGHATA GUNDU RAO, 4. DR. ARAKALLI SREENIVASARAO RADHAKRISHNA, 5. ADIBHATLA KALI SATYA BHUJANGA RAO, 6. RAKESH KUMAR VARMA.

Application No. 1422/Cal/83 filed November 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A process for the preparation of alkyl- $\alpha$  carbethoxy- $\beta$ -(arylaminio) acrylate of the general formula I of the accompanying drawings



I

wherein Ar represents C<sub>6</sub>H<sub>5</sub>, p-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>, m-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>, m-Cl-C<sub>6</sub>H<sub>4</sub> and 2,5-(CH<sub>3</sub>O)C<sub>6</sub>H<sub>3</sub>, o-Cl-C<sub>6</sub>H<sub>4</sub>, p-Cl-C<sub>6</sub>H<sub>4</sub>, p-CH<sub>3</sub>o-C<sub>6</sub>H<sub>4</sub>, m-CH<sub>3</sub>-C<sub>6</sub>H<sub>4</sub>, 2,4-Cl<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>; R<sub>2</sub> represents methyl, ethyl, propyl or isopropyl group which comprises reacting a trialkyl orthoformate and a dialkyl malonate with an arylamine in presence of catalytic amount of a trivalent iron salt, at a temperature of 100—140°C.

Compl. specn. 9 pages. Drg. 1 sheet

CLASS : 81 159106

Int. Cl. : A 62 c 23/00.

## VALVE FOR FIRE SUPPRESSION.

Applicant : MAROTTA SCIENTIFIC CONTROLS, INC., 15 1500 BOONTON AVENUE, BOONTON NEW JERSEY-07005, UNITED STATES OF AMERICA.

Inventor : J. SLAWOMIR KOWALSKI.

Application No. 1484/Cal/83 filed December 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A quick-acting valve having a body and a valve member and stem movably guided by a bore of said body between valve-closed and valve-open positions, means for applying loading force between said body and said valve member for continuously loading said valve member and stem in the direction from the closed to the open position, and mechanical-latch means positively retaining said valve member and stem in said closed position and against loaded displacement to said open position, said latch means comprising a collect with fingers providing body referenced restraint against such displacement at angularly spaced locations symmetrical about the axis of said bore, and latch-release means including an axially shiftable cylindrical actuating sleeve element surrounding said fingers and guided by the axis of said bore and simultaneously operable to release said latch means at all said angularly spaced positions, said sleeve element having a bore characterized by two angularly spaced radially inwardly projecting cylindrical lands, and said fingers being characterized by two axially spaced radially outwardly projecting feet which radially abut said lands in the engaged condition of said latch means, said latch means being released upon sleeve displacement of said lands axially away from foot-to-land radial-abutting relation.

Compl. specn. 16 pages.

Drg. 4 sheets

CLASS : 150-C

159107

Int. Cl. : F 16 I 21/00.

COUPLING FOR CONNECTING TWO CONDUIT SECTIONS OR THE LIKE IN AXIALLY ALIGNED END-TO-END RELATION.

Applicant : ALLIED TUBE & CONDUIT CORPORATION, OF 16100 SOUTH LATHROP AVENUE, HARVEY, ILLINOIS 60426, UNITED STATES OF AMERICA.

Inventor : 1. HAROLD DAVID GOLDBERG.

Application No. 1508/Cal/83 filed December 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A coupling for connecting two conduit sections or the like in axially aligned end-to-end relation, said conduit sections having substantially identical external threads formed on the ends thereof which are to be connected in end-to-end relation, said coupling comprising :

a first coupling member having an internal chamber opening outwardly of at least one end thereof and adapted to freely receive the threaded end of either of said conduit sections therein, said first coupling member having internal means adjacent said chamber adapted for releasable cooperation with threaded end of either of said conduit sections when inserted within said chamber,

a second coupling member disposed within said chamber and axially movable therein, said second coupling member having an opening therethrough the circumference of which is defined by means adapted for releasable connection with threaded end of either of said conduit sections when received within said chamber,

said first coupling member having a substantially radial flange defining an opening communicating with said chamber and configured to enable insertion of said second coupling member into said chamber through said opening, said flange being adapted chamber through said opening, said flange being adapted for cooperation with said second coupling member so as to limit axial movement thereof within said chamber,

said first and second coupling members and said threaded ends of said conduit sections being adapted for inter-connection of said second coupling member with the threaded end of a selected one of said conduit sections when inserted within said chamber from said at least one end thereof followed by releasable connection of said internal means of said first coupling member with the threaded end of said selected one of said conduit sections so as to effect a substantially flush relation of said first coupling member with the end of said selected conduit section and enable relative lateral movement between said conduit sections to establish close axial end-to-end alignment, said first coupling member being manipulable to effect releasable engagement of said internal means with the threaded end of the other conduit section in a manner to maintain said conduit sections in fixed coupled relation.

Compl. specn. 15 pages.

Drg. 1 sheet.

CLASS : 145-A 159108

Int. Cl. : D 21 b 1/00.

**A METHOD OF DRY DEINKING AN INK-BEARING SECONDARY FIBER SOURCE.**

Applicant : KIMBERLY-CLARK CORPORATION, OF 401 NORTH LAKE STREET, NEENAH, WISCONSIN-54956, UNITED STATES OF AMERICA.

Inventor : 1. BYRON R. TERRY.

Application No. 1553/Cal/83 filed December 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**7 Claims**

A method of deinking an ink-bearing secondary fiber source comprising mechanically fiberizing the secondary fiber source to produce substantially discrete fibers and fines which include ink bearing fines, said fiberizing occurring when said secondary fiber source is substantially air dry or sufficiently dry to prevent adhesion of the resulting fibers and fines, and separating the fines from said fibers, whereby said fibers are suitable as secondary fiber.

Compl. specn. 19 pages.

Drg. 7 sheets.

CLASS : 40-F; 154-C 159109

Int. Cl. : B 41 m 3/08; B 44 d 5/02.

**METHOD OF TREATING THERMOPLASTIC SURFACES.**

Applicant : GOULD INC., 10 GOULD CENTER, ROLLING MEADOWS, ILLINOIS 60008, UNITED STATES OF AMERICA.

Inventors : 1. RONALD ALAN PUTT, 2. ALAN ISSAC ATTIA.

Application No. 1584/Cal/83 filed December 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims**

The method of treating the surface of a body formed of thermoplastic material such as polyphenylene sulfide and polysulfone, comprising the step of subjecting the surface to contact with a solution of bromine in an aqueous solution

selected from the group consisting of an aqueous chloride solution and an aqueous bromide solution.

Compl. specn. 12 pages.

Drg. Nil.

CLASS : 32-A, 159110

Int. Cl. : C 09 b 29/16.

**PROCESS FOR THE PREPARATION OF WATER-SOLUBLE MONOAZO COMPOUNDS.**

Applicant : AMERICAN HOECHST CORPORATION, OF ROUTE 202-206 NORTH, SOMERVILLE, NEW JERSEY-08876, UNITED STATES OF AMERICA.

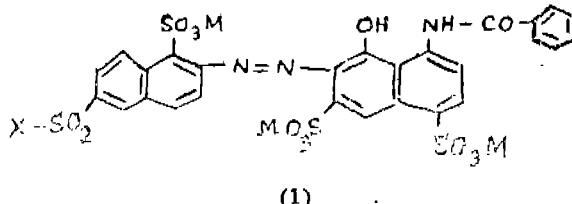
Inventors : 1. ANTHONY J. CORSO, 2. FRITZ MEININGER, 3. THOMAS S. PHILLIPS.

Application No. 108/Cal/84 filed February 15, 1984.

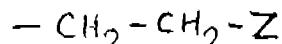
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**5 Claims**

A process for the preparation of a water-soluble monazo compound of the general formula (1) of the accompanying drawings,

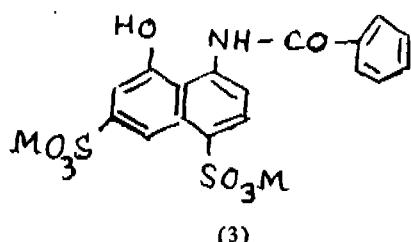


in which M is a hydrogen atom or an alkali metal atom or the equivalent of a metal of the Second or Third Main Group of the Periodic Table and X is the vinyl group or a group of the general formula (2)

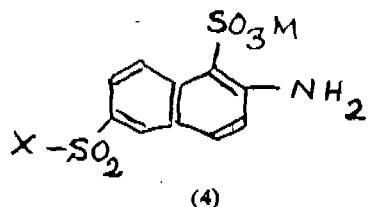


(2)

in which Z is a substituent which can be eliminated by an alkaline agent, which comprises coupling a compound of formula (3)



in which M is defined as above, with a diazotized amino compound of the general formula (4)



in which and X are defined as above.

Compl. specn. 20 pages.

Drg. 2 sheets.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undenoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy:—

155680	155681	155683	155725	155749	155750	155839
155973	156009	156085	155092	156112	156137	156279
156397	156454	156465	156496	156534	156637	156691
156732	156898	156935	156950	156959	156960	156967
156969	156973	157000	157018			

## (1)

152884	152885	152886	152887	152888	152889	152890
152891	152892	152893	152894	152895	152896	152897
152898	152899	152900	152901	152902	152903	152904
152905	152906	152907	152908	152909	152910	152911
152912	152913	152914	152915			

## (2)

152916	152917	152918	152919	152920	152921	152922
152923	152924	152925	152926	152927	152928	152929
152930	152931	152932	152933	152934	152935	152936
152937	152938	152939	152940	152941	152942	152943
152944	152945	152946	152947	152948	152949	152950
152951	152952	152953	152954	152955		

## OPPOSITION PROCEEDINGS

## (1)

An opposition has been entered by Honda Giken Kogyo Kabushiki Kaisha, Japan to the grant of a Patent on application for Patent No. 158040 made by Bajaj Auto Limited, Pune.

## (2)

An opposition has been entered by Council of Scientific & Industrial Research, C/o NRDC, New Delhi to the grant of a Patent on application for Patent No. 158033 made by Shri Sham Murti Mehta, Pune.

## (3)

An opposition has been entered by Piaggio & C. SPA Italy, to the grant of a Patent on application for Patent No. 158037 made by Bajaj Auto Limited, Pune.

## (4)

An opposition has been entered into by Honda Giken Kogyo Kabushiki Kaisha, Japan to the grant of a Patent on application for Patent No. 158037 made by Bajaj Auto Limited, Pune.

## (5)

An opposition has been entered by I.E.L. Limited to the grant of a Patent on application No. 158123 made by Union Explosives Rio Tinto, S.A.

## PATENTS SEALED

155715	156294	156662	157144	157214	157223	157261
157263	157264	157265	157266	157268	157269	157270
157288	157289	157290	157291	157294	157299	157301
157302	157303	157304	157306	157309	157310	157311
157312	157313	157314	157315	157316	157317	157320
157322	157323	157324	157330	157378	157381	157384
157387						

## RENEWAL FEES PAID

139771	140246	140732	141053	141332	141379	141397
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144499	144831	144950	145234	145743	146390	147062
147124	147395	147459	148586	148866	149030	149331
149385	150078	150129	150737	150789	151453	151887
152123	152282	152645	152674	152697	152953	153043
153197	153701	153979	154102	154572	154594	154742
154805	154882	154939	154976	155190	155191	155260
155328	155331	155337	155351	155414	155416	155423
155433	155434	155624	155626	155672	155673	155676

155680	155681	155683	155725	155749	155750	155839
155973	156009	156085	155092	156112	156137	156279
156397	156454	156465	156496	156534	156637	156691
156732	156898	156935	156950	156959	156960	156967
156969	156973	157000	157018			

## CESSATION OF PATENTS

144575 149389 155225 155755.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157499. Stamicarbon B.V., a Dutch Company, of Mijnweg 1, 6167 AC Geleen, The Netherlands, a "Cyclone for Grading or Separating Particles". 3rd October, 1986.

Class 1. No. 157562. Pandit Bhanudas Vishnu, an Indian of Block No. 9, Durgesh, 2nd floor, Shiv-Tirth Co-operative Housing Society, Vishnunagar, Dombivli (West), Dist. Thana, Maharashtra, India. "Sealing device for the lid of a container". 20th October, 1986.

Class 1. Nos. 157595, 157596. The Nash Engineering Company a corporation organised and existing under the laws of State of Connecticut, U.S.A. 06856, "Liquid Ring Pump". 24th October, 1986.

Class 1. No. 157684. Neta Metal Works, of 3, Industrial Area, Jalandhar-144004 (Punjab), India, An Indian Proprietorship Firm. "Push Button Type Self Closing Tap". 20th November, 1986.

Class 1. No. 157692. S. G. Industries : Plot No. 44, Opp. Gali No. 6, Industrial Area : New Rohtak Road, New Delhi-110005 (India), An Indian Partnership Firm. "Paper Clip-cum-Ball Pen Stand". 30th September, 1986.

Class 3. No. 157636. Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India, an Indian Company. "a Portable Radio". 6th November, 1986.

Class 3. No. 157490. Ashish Enterprises, Irani Building, Gr. floor, 303, Cawasji Hormasji Street, Bombay-400 002, Maharashtra, India, an Indian Partnership Firm. "Paper Clip-cum-Ball Pen Stand". 30th September, 1986.

Class 3. No. 157488. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I.B. Patel Road, Goregaon (East), Bombay-400063, Maharashtra, India, an Indian Partnership firm. "Lunch Carrier". 30th September, 1986.

Class 3. No. 157323. Saklaspur Organics Pvt. Ltd., of Plot No. 39, Doddenakundi Industrial Area, Whitefield Road, Mahadevapura, Bangalore-560 048, Karnataka State, India, an Indian Company. "Container". 7th August, 1986.

Class 3. No. 157670. Royal Industries : 3541-Qutab Road, Delhi-110006 an Indian Partnership concern. "Tray". 17th November, 1986.

Class 3. No. 157567. Plastall Consultant, 501, Paras Darshan, Shanker Lane, Kandivli (West), Bombay-400067, Maharashtra, India. Indian Sole Proprietor Firm. "Chair". 22nd October, 1986.

Class 3. No. 157568. Plastall Consultant, 501, Paras Darshan, Shanker Lane, Kandivli (West), Bombay-400067, Maharashtra, India, Indian Sole Proprietary Firm. "Table". 22nd October, 1986.

Class 3. No. 157534. Sunil & Company, 419-F, Joshiwadi, Kalbadevi Road, Bombay-400 002, Maharashtra State, India, an Indian Partnership firm. "Jar". 9th October, 1986.

Class 3. No. 157431. Lion Pencils Private Limited (a company incorporated under the provisions of Indian Companies Act) at Andrew Nagar, S.V. Road, Dahisar, Bombay-400 068, State of Maharashtra, India. "Pencil". 8th September, 1986.

Class 3. No. 157430. Lion Pencils Private Limited (a company incorporated under the provisions of Indian Companies Act) at Andrew Nagar, S.V. Road, Dahisar, Bombay-400 068, State of Maharashtra, India. "Pencil". 8th September, 1986.

Class 3. No. 157331. Ees Eeh Plastic Private Limited (a company incorporated under the Indian Companies Act), whose address is B3/216, Paschim Vihar, New Delhi, India. "Bottle". 13th August, 1986.

Class 3. No. 157419. Societe Generale Des Eaux Minerales De Vittel, a French Company of 88800 Vittel, France, "a Container". 5th September, 1986.

Class 3. No. 157491. Ashish Enterprises, Irani Building, Gr. floor, 303, Cawasji Hormasji Street, Bombay-400 002, Maharashtra, India, an Indian Partnership firm. "Paper Slip Stand with Ball Pen". 30th September, 1986.

Class 3. No. 157495. Angelo Guala S.P.A., an Italian Company, of C.so Romita, 79-15100 Alessandria, Italy. a "Pasty Product Dispenser". 1st October, 1986.

Class 3. No. 157604. Modi Rubber Limited, an Indian company of Modinagar, Uttar Pradesh, India. "a Tyre for a Vehicle Wheel". 27th October, 1986.

Class 3. No. 157612. Parker Pen (BENELUX) B.V., a corporation organised and existing under the laws of the Netherlands, of Parker House, 4817 B1 Breda, The Netherlands. a "Writing Instrument". Reciprocity date is 16th June, 1986 (U.K.).

Class 3. No. 157613. Parker Pen (BENELUX) B.V., a corporation organised and existing under the laws of the Netherlands, of Parker House, 4817 B1 Breda, The Netherlands, a "Writing Instrument". Reciprocity date is 16th June, 1986 (U.K.).

Class 3. No. 157630. Francis Bartow Fite III, of 1706 Howell Place, Seattle, Washington 98102, U.S.A., a citizen of the U.S.A., a "Pepper Grinder and Dispenser". 5th November, 1986.

Class 3. No. 157747. Royal Industries: 3541-Outab Road, Delhi-110006 (India), an Indian Partnership concern. "Tray". 4th December, 1986.

Class 3. No. 157602. Interlego A/S, a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark, "a Bucket". 27th October, 1986.

Class 5. Nos. 157432, 157433, 157434, 157435. Lion Pencils Private Limited, (a company incorporated under the Provisions of the Indian Companies Act) At Andrew Nagar, S. V. Road, Dahisar, Bombay-400 068, Maharashtra State, India. "Carton", 8th September, 1986.

Class 12. No. 157492. Emjas Trust, 8th Floor, Mogul's Court, Basheerbagh, Hyderabad-500 012, Andhra Pradesh, India, a trust duly organised and existing under the laws of the Union of India. "Biscuits". 1st October, 1986.

Class 12. No. 157552. Emias Trust, 8th Floor, Mogul's Court, Basheerbagh, Hyderabad-500 012, Andhra Pradesh, India, a trust duly organised and existing under the laws of the Union of India. "Biscuits". 14th October, 1986.

*Extn. of Copyright for the Second period of five years.*

Nos. 155603, 155604, 155605, 156638, 156796. .... Class 1.

Nos. 156773, 156676, 156673, 156674, 156761, 156731, 156732, 156675 .... Class 3.

*Extn. of Copyright for the Third period of five years.*

Nos. 155603, 155604, 155605, 156638, 156996. .... Class 1.

Nos. 156773, 156676, 156673, 156674, 156761, 156731, 156732, 156675. .... Class 3.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks.